INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE SHEET AND LOCATION MAP
2 - 5	CONSTRUCTION AREA SIGNS
6 - 8	PAVEMENT DELINEATION DETAILS AND QUANTITIES
9 - 12	REVISED STANDARD PLANS

THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO CONTRACTORS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON

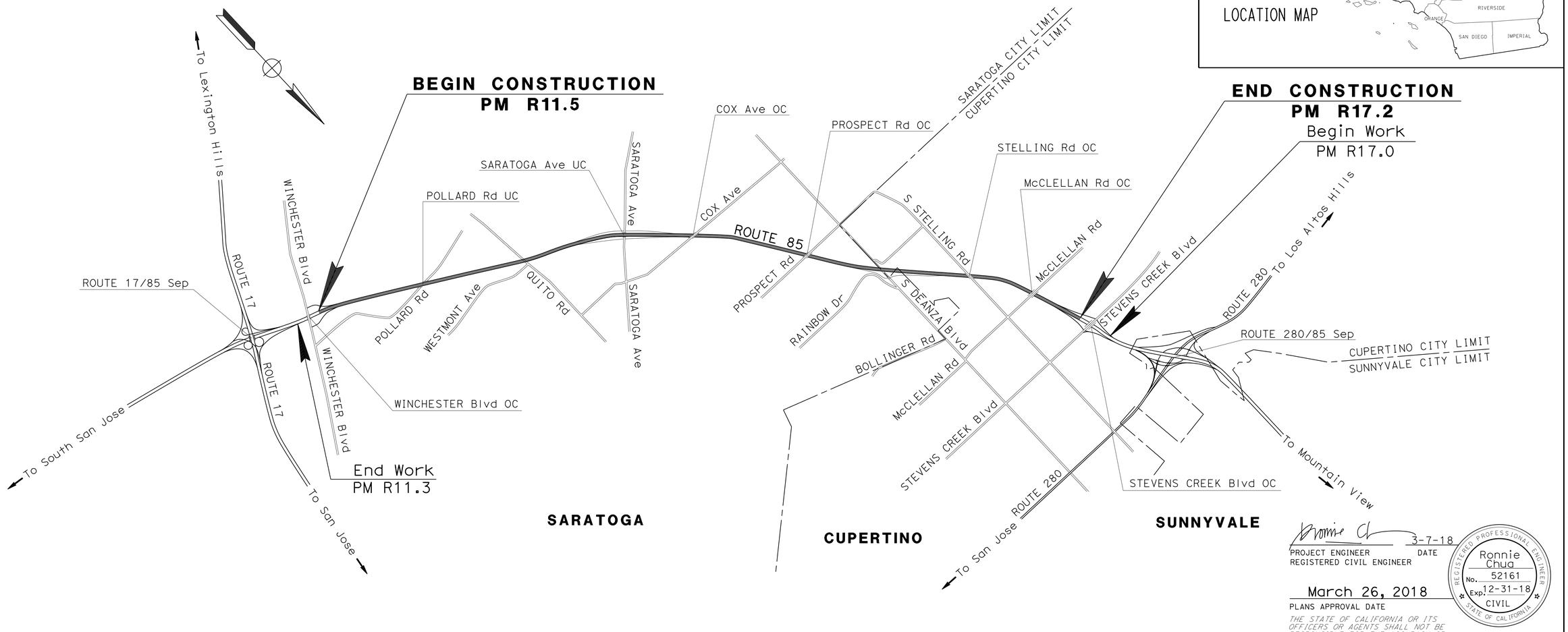
STATE HIGHWAY

IN SANTA CLARA COUNTY
IN SARATOGA AND CUPERTINO
FROM 0.5 MILE NORTH OF WINCHESTER BOULEVARD OVERCROSSING
TO 0.5 MILE SOUTH OF STEVENS CREEK BOULEVARD OVERCROSSING

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2015

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCl	85	R11.5/R17.2	1	12

LOCATION MAP



NO SCALE

THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

PROJECT MANAGER: RAMSES SARGISS

DESIGN MANAGER: RAMSES SARGISS

3-7-18
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

March 26, 2018
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Ronnie Chua — No. 52161 — Exp. 12-31-18 — CIVIL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

CONTRACT No.	04-0Q9404
PROJECT ID	0418000180

LAST REVISION 11-14-17
DATE PLOTTED => 28-MAR-2018
TIME PLOTTED => 14:02

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCl	85	R11.5/R17.2	2	12

Rajesh Oberoi 3-6-18
REGISTERED CIVIL ENGINEER DATE

3-26-18
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Rajesh Oberoi
No. 46046
Exp. 12-31-18
CIVIL
STATE OF CALIFORNIA

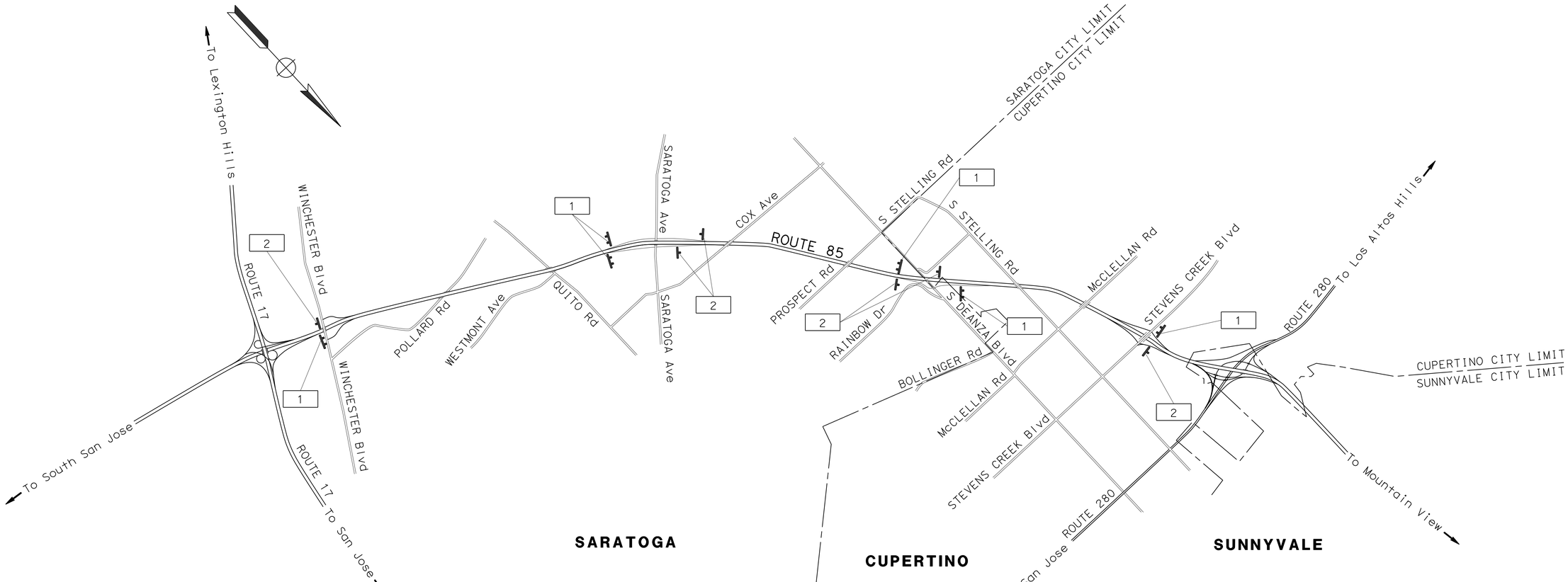
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND:

No. CONSTRUCTION AREA SIGN NUMBER

NOTES:

1. EXACT LOCATION AND POSITION OF SIGNS TO BE DETERMINED BY THE ENGINEER.
2. LETTERING SIZES FOR SIGN PANELS ARE IN INCHES.



CONSTRUCTION AREA SIGNS

NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC
Caltrans

FUNCTIONAL SUPERVISOR: DEAN SAMUELSON
CALCULATED-DESIGNED BY:
CHECKED BY: RONNIE CHUA

REVISED BY	DATE REVISED
AN	2-9-18
ALI NIKOO	

LAST REVISION | DATE PLOTTED => 28-MAR-2018
02-09-18 | TIME PLOTTED => 14:02

BORDER LAST REVISED 7/2/2010 | USERNAME => p04922 | DGN FILE => 04180001801a001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0609 | PROJECT NUMBER & PHASE 04180001801

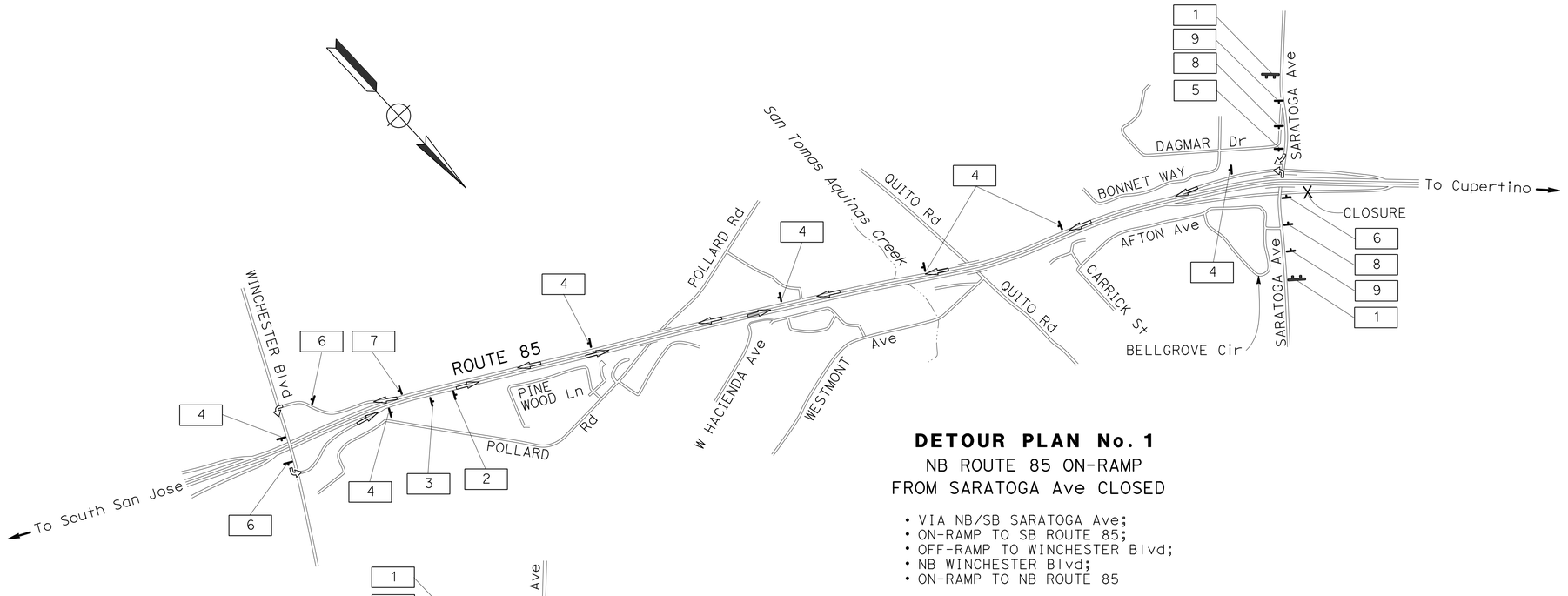
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCl	85	R11.5/R17.2	3	12

Rajesh L. Oberoi 3-6-18
REGISTERED CIVIL ENGINEER DATE

3-26-18
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Rajesh Oberoi — No. 46046 — Exp. 12-31-18 — CIVIL — STATE OF CALIFORNIA

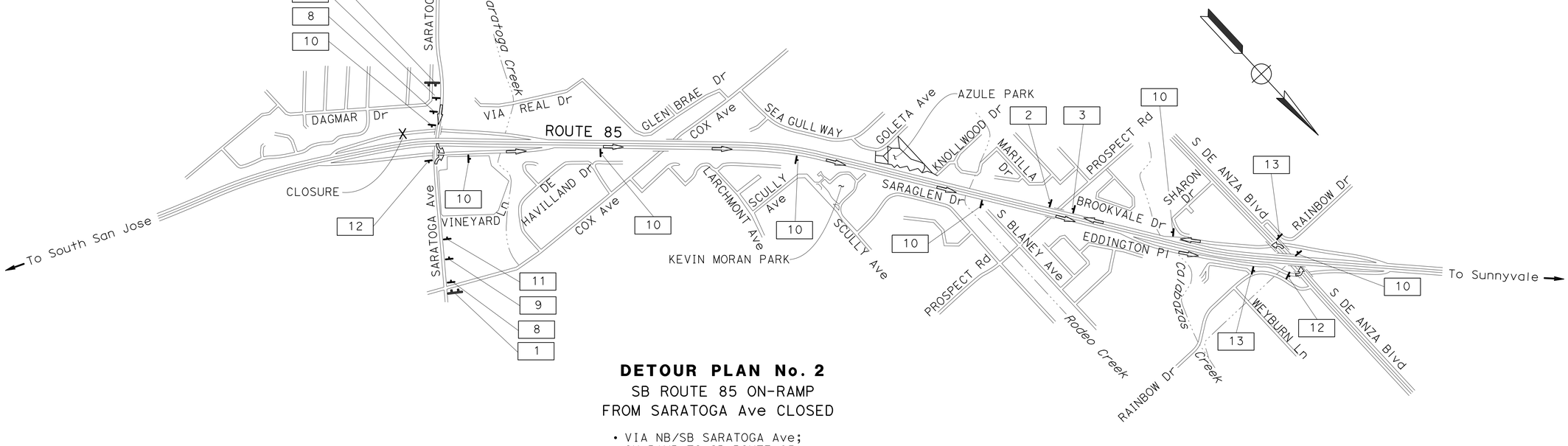
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



DETOUR PLAN No. 1

NB ROUTE 85 ON-RAMP
FROM SARATOGA Ave CLOSED

- VIA NB/SB SARATOGA Ave;
- ON-RAMP TO SB ROUTE 85;
- OFF-RAMP TO WINCHESTER Blvd;
- NB WINCHESTER Blvd;
- ON-RAMP TO NB ROUTE 85



DETOUR PLAN No. 2

SB ROUTE 85 ON-RAMP
FROM SARATOGA Ave CLOSED

- VIA NB/SB SARATOGA Ave;
- ON-RAMP TO SB ROUTE 85;
- OFF-RAMP TO S DE ANZA Blvd;
- SB S DE ANZA Blvd;
- ON-RAMP TO SB ROUTE 85

CONSTRUCTION AREA SIGNS

NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

FOR NOTES AND LEGEND, SEE SHEET CS-1

CS-2

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
ALI NIKOO	RONNIE CHUA	AN	1-5-18

FUNCTIONAL SUPERVISOR: DEAN SAMUELSON

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC

Caltrans®

LAST REVISION DATE PLOTTED => 28-MAR-2018
01-05-18 TIME PLOTTED => 14:02

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCl	85	R11.5/R17.2	4	12

Rajesh Oberoi 3-6-18
REGISTERED CIVIL ENGINEER DATE

3-26-18
PLANS APPROVAL DATE

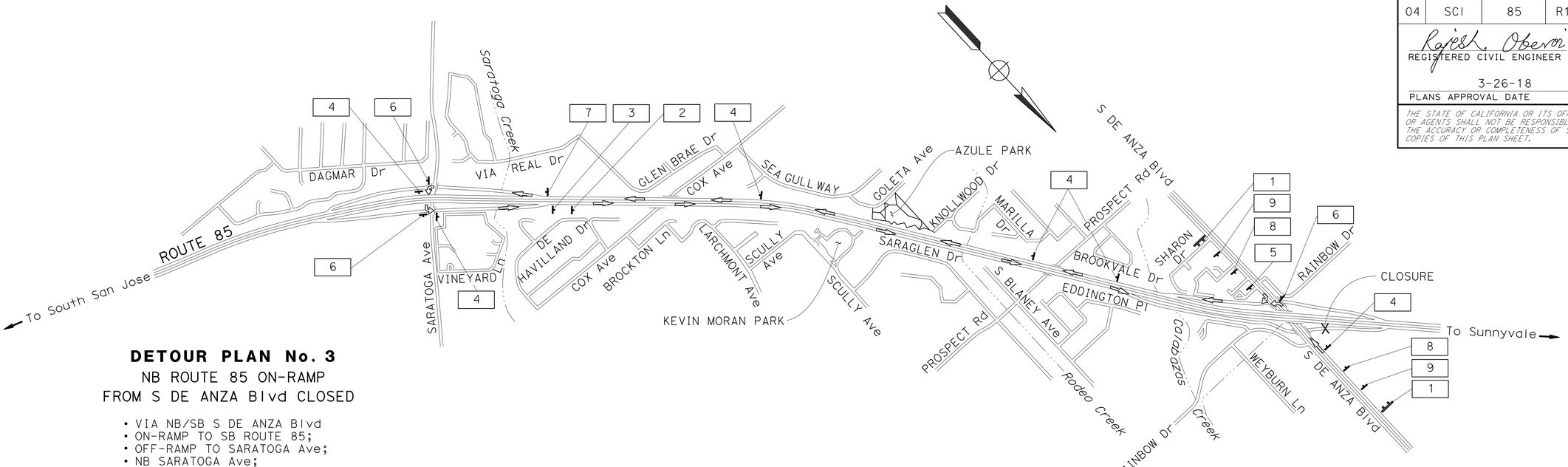
REGISTERED PROFESSIONAL ENGINEER — Rajesh Oberoi — No. 46046 — Exp. 12-31-18 — CIVIL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REVISED BY	DATE REVISED
AN	1-8-18

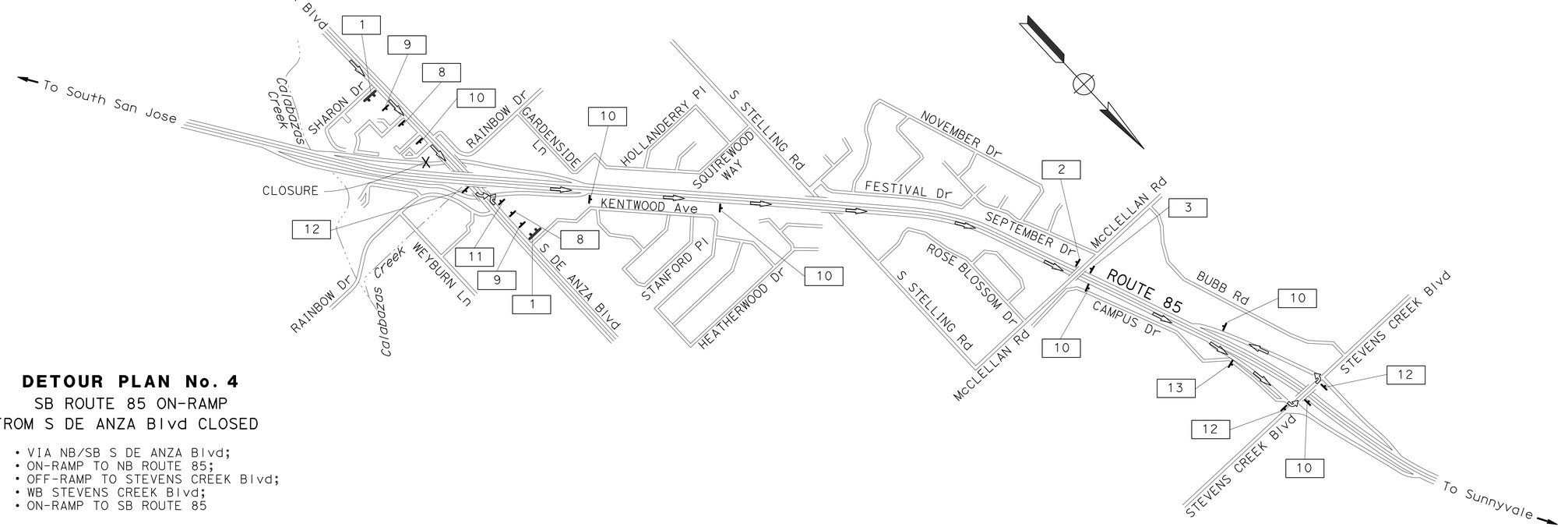
CALCULATED-DESIGNED BY: ALI NIKOO
CHECKED BY: RONNIE CHUA
FUNCTIONAL SUPERVISOR: DEAN SAMUELSON

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
TRAFFIC



DETOUR PLAN No. 3
NB ROUTE 85 ON-RAMP
FROM S DE ANZA Blvd CLOSED

- VIA NB/SB S DE ANZA Blvd
- ON-RAMP TO SB ROUTE 85;
- OFF-RAMP TO SARATOGA Ave;
- NB SARATOGA Ave;
- ON-RAMP TO NB ROUTE 85



DETOUR PLAN No. 4
SB ROUTE 85 ON-RAMP
FROM S DE ANZA Blvd CLOSED

- VIA NB/SB S DE ANZA Blvd;
- ON-RAMP TO NB ROUTE 85;
- OFF-RAMP TO STEVENS CREEK Blvd;
- WB STEVENS CREEK Blvd;
- ON-RAMP TO SB ROUTE 85

CONSTRUCTION AREA SIGNS

NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

FOR NOTES AND LEGEND, SEE SHEET CS-1

CS-3

LAST REVISION: DATE PLOTTED => 28-MAR-2018
01-08-18 TIME PLOTTED => 14:02

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	85	R11.5/R17.2	5	12

Rajesh Oberoi 3-6-18
REGISTERED CIVIL ENGINEER DATE

3-26-18
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Rajesh Oberoi — No. 46046 — Exp. 12-31-18 — CIVIL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	No. OF SIGNS
	FEDERAL	CALIFORNIA				
1	W20-1		48" x 48"	ROAD WORK AHEAD	2 - 4" x 6"	14
2	G20-2		36" x 18"	END ROAD WORK	1 - 4" x 4"	10
3	M4-8a		24" x 18"	END DETOUR	1 - 4" x 4"	4
4		SC-3(↑)	21" x 9"	DETOUR (STRAIGHT AHEAD ARROW)	1 - 4" x 6"	13
		G28-2(85)	24" x 25"	ROUTE SHIELD 85		
	M3-1		21" x 9"	NORTH		
5	M4-10 (R+)		48" x 18"	DETOUR (RIGHT)	1 -4" x 6"	2
		G28-2(85)	24" x 25"	ROUTE SHIELD 85		
	M3-1		21" x 9"	NORTH		
6	M4-10 (L+)		48" x 18"	DETOUR (LEFT)	1 -4" x 6"	6
		G28-2(85)	24" x 25"	ROUTE SHIELD 85		
	M3-1		21" x 9"	NORTH		
7	M4-8		21" x 9"	DETOUR	1 -4" x 6"	2
		G28-2(85)	24" x 25"	ROUTE SHIELD 85		
	M3-1		21" x 9"	NORTH		
	M6-2(↗)		21" x 15"	DETOUR DIAGONAL ARROW		
8		SC6-4	48" x 60"	RAMP CLOSED (DATE & TIME)	1 - 6" x 6"	8
9	W20-2		48" x 48"	DETOUR AHEAD	1 - 4" x 6"	8
10		SC-3(↑)	21" x 9"	DETOUR (STRAIGHT AHEAD ARROW)	1 -4" x 6"	13
		G28-2(85)	24" x 25"	ROUTE SHIELD 85		
	M3-3		21" x 9"	SOUTH		
11	M4-10(R+)		48" x 18"	DETOUR (RIGHT)	1 -4" x 6"	2
		G28-2(85)	24" x 25"	ROUTE SHIELD 85		
	M3-3		21" x 9"	SOUTH		
12	M4-10 (L+)		48" x 18"	DETOUR (LEFT)	1 -4" x 6"	5
		G28-2(85)	24" x 25"	ROUTE SHIELD 85		
	M3-3		24" x 9"	SOUTH		
13	M4-8		24" x 9"	DETOUR	1 -4" x 6"	3
		G28-2(85)	24" x 25"	ROUTE SHIELD 85		
	M3-3		21" x 9"	SOUTH		
	M6-2(↗)		21" x 15"	DETOUR DIAGONAL ARROW		

CONSTRUCTION AREA SIGNS

CS-4

REVISED BY	DATE REVISED
AN	1-9-18

CALCULATED-DESIGNED BY: ALI NIKOO
CHECKED BY: RONNIE CHUA
FUNCTIONAL SUPERVISOR: DEAN SAMUELSON

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
TRAFFIC

LAST REVISION 01-09-18
DATE PLOTTED => 28-MAR-2018
TIME PLOTTED => 14:02

BORDER LAST REVISED 7/2/2010
USERNAME => p04922
DGN FILE => 04180001801a004.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0609
PROJECT NUMBER & PHASE 04180001801

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	85	R11.5/R17.2	6	12

REGISTERED CIVIL ENGINEER — 3-7-18 DATE

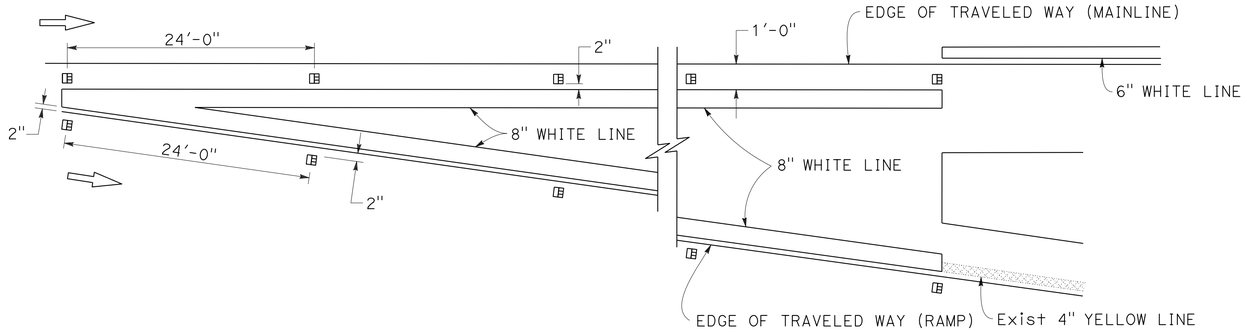
PLANS APPROVAL DATE — 3-26-18

REGISTERED PROFESSIONAL ENGINEER — Ronnie Chua — No. 52161 — Exp. 12-31-18 — CIVIL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

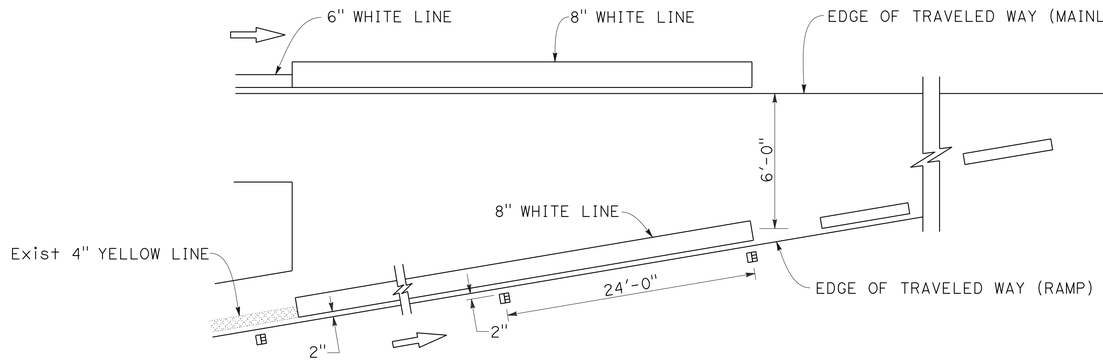
LEGEND:

- TYPE CR RED-CLEAR RETROREFLECTIVE
- TYPE YR RED-YELLOW RETROREFLECTIVE
- RETROREFLECTIVE FACE



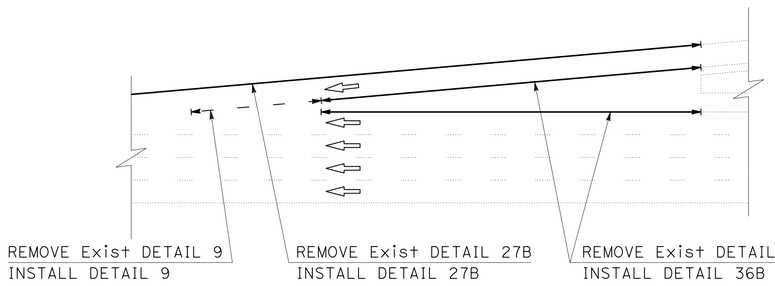
DETAIL 36 (Mod)

EXIT RAMP NEUTRAL AREA (GORE) TREATMENT

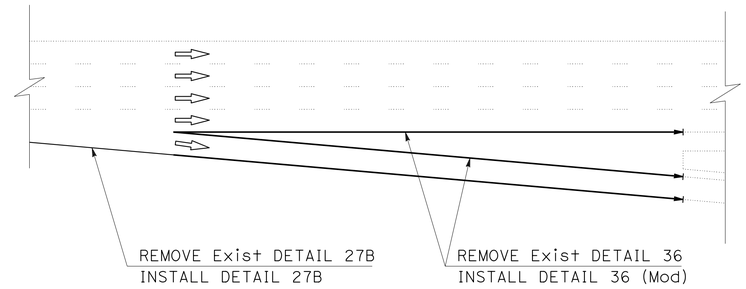


DETAIL 36A (Mod)

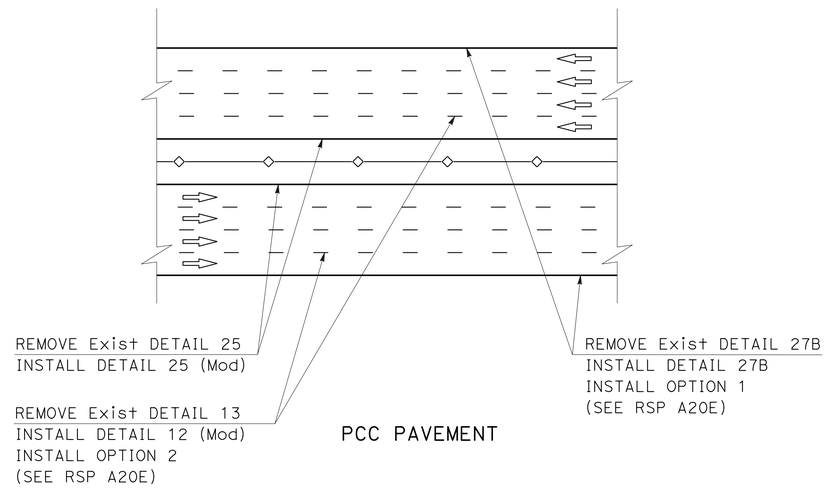
ENTRANCE RAMP NEUTRAL AREA (MERGE) TREATMENT



TYPICAL STRIPING DETAILS, ONE-LANE ON-RAMP



TYPICAL STRIPING DETAILS, ONE-LANE OFF-RAMP



TYPICAL STRIPING DETAILS, MAINLINE

PAVEMENT DELINEATION DETAILS

NO SCALE

PDD-1

CALCULATED-DESIGNED BY	AN	1-9-18	
CHECKED BY	RONNIE CHUA		
FUNCTIONAL SUPERVISOR	RAMSES SARGISS		
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN		

LAST REVISION — DATE PLOTTED => 28-MAR-2018 — TIME PLOTTED => 14:02 — 01-09-18

BORDER LAST REVISED 7/2/2010 | USERNAME => p04922 | DGN FILE => 0418000180nb001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0609 | PROJECT NUMBER & PHASE 04180001801

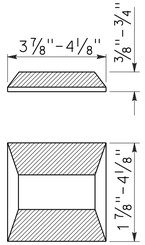
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	85	R11.5/R17.2	7	12

Ronnie Chua 3-7-18
REGISTERED CIVIL ENGINEER DATE

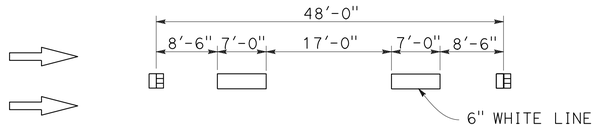
3-26-18
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Ronnie Chua
No. 52161
Exp. 12-31-18
CIVIL
STATE OF CALIFORNIA

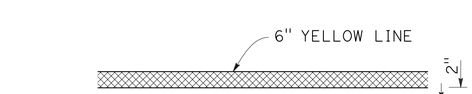
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



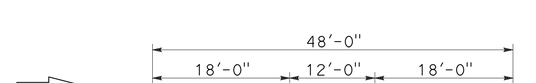
MARKER DETAILS
TYPE CR AND TYPE YR



DETAIL 9 (Mod)



DETAIL 25 (Mod)
LEFT EDGELINES



DETAIL 12 (Mod)
LANELINES

FOR LEGEND, SEE SHEET PDD-1

PAVEMENT DELINEATION DETAILS

NO SCALE

PDD-2

CALCULATED-DESIGNED BY
CHECKED BY
ALI NIKOO
RONNIE CHUA
REVISED BY
DATE REVISED
AN
1-9-18
FUNCTIONAL SUPERVISOR
RAMSES SARGISS
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

LAST REVISION 01-09-18
DATE PLOTTED => 28-MAR-2018
TIME PLOTTED => 14:02

BORDER LAST REVISED 7/2/2010
USERNAME => p04922
DGN FILE => 0418000180nb002.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0609
PROJECT NUMBER & PHASE 04180001801

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	85	R11.5/R17.2	8	12

REGISTERED CIVIL ENGINEER — 3-7-18 DATE

Ronnie Chua No. 52161 Exp. 12-31-18 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

3-26-18
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. EXISTING PAVEMENT DELINEATION SHALL BE REFERENCED AND REPLACED AS THE SAME LOCATIONS AS EXISTING.
2. PAVEMENT DELINEATION WILL NOT BE REMOVED AT MORE THAN TWO LOCATIONS AT THE SAME TIME. TEMPORARY PAVEMENT DELINEATION FOR THIS REQUIREMENT WILL BE PAINTED TRAFFIC STRIPE OR PERMANENT PAVEMENT DELINEATION.

TRAFFIC STRIPES AND PAVEMENT MARKERS

LOCATION		REFERENCE LOCATION	REMOVE				INSTALL									
			THERMOPLASTIC TRAFFIC STRIPE			PAVEMENT MARKER	RETROREFLECTIVE PAVEMENT MARKER		6" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY)		8" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY)		6" TRAFFIC STRIPE TAPE (WARRANTY)	6" TRAFFIC STRIPE TAPE (WARRANTY)	PAINT TRAFFIC STRIPE (2-COAT)	
							TYPE		YELLOW	WHITE					BLACK	
BEGIN PM	END PM		4" YELLOW (HAZARDOUS WASTE)	4" WHITE	8" WHITE		CR	YR	DETAIL (Mod)	DETAIL	DETAIL (Mod)		(BROKEN 17-7)	(BROKEN 36-12)	2"	6"
									25	27B	36	36A	9	12	OPTION 1	OPTION 2
			LF			EA			LF							
NORTHBOUND MAINLINE (CENTERLINES, LEFT EDGE LINES, RIGHT EDGE LINES)																
R11.5	R11.575	MAINLINE	396	693		140	27	10	396	396				1,188		
R11.575	R17.2	MAINLINE	29,700	44,550		6,810	1240	620	29,700	29,700				59,400		
NORTHBOUND RAMPS (EXIT RAMP NEUTRAL AREA (GORE) TREATMENT, ENTRANCE RAMP NEUTRAL AREA (MERGE AND ACCELERATION) TREATMENT, LANE DROP, CHANNELIZING LINE, LANE LINE AT EXIT RAMPS)																
R13.416	R13.488	EXIT - SARATOGA Ave			1,520	34	34				760					
R13.902	R13.974	ENTRANCE - SARATOGA Ave			1,500	17	17					750				
R13.974	R14.045	LANE LINE		110		7	7						375			
R15.430	R15.494	EXIT - S DE ANZA Blvd			1,360	30	30				680					
R16.051	R16.120	ENTRANCE - S DE ANZA Blvd			1,460	17	17					730				
R16.120	R16.175	LANE LINE		85		7	7						290			
NORTHBOUND - CONTRAST STRIPING																
R11.5	R11.575	MAINLINE													792	1,188
R11.575	R17.2	MAINLINE													59,400	59,400
SOUTHBOUND MAINLINE (CENTERLINES, LEFT EDGE LINES, RIGHT EDGE LINES)																
R17.2	R17.051	MAINLINE	790	1,383		271	53	18	790	790				2,370		
R17.051	R11.575	MAINLINE	29,310	43,965		6,723	1224	612	29,310	29,310				58,620		
SOUTHBOUND RAMPS (EXIT RAMP NEUTRAL AREA (GORE) TREATMENT, ENTRANCE RAMP NEUTRAL AREA (MERGE AND ACCELERATION) TREATMENT, LANE DROP, CHANNELIZING LINE, LANE LINE AT EXIT RAMPS)																
R16.086	R16.023	EXIT - S DE ANZA Blvd			1,332	30	30				666					
R15.690	R15.593	ENTRANCE - S DE ANZA Blvd			2,052	24	24					1026				
R15.593	R15.638	LANE LINE			140	7	7						240			
R13.946	R13.895	EXIT - SARATOGA Ave			1,080	25	25				540					
R13.512	R13.472	ENTRANCE - SARATOGA Ave			848	10	10					424				
R13.472	R13.459	LANE LINE		22		3	3						70			
SOUTHBOUND - CONTRAST STRIPING																
R17.2	R17.051	MAINLINE													1,580	2,370
R17.051	R11.575	MAINLINE													58,620	58,620
SUBTOTAL			60,196	90,808	11,292	14,155	2755	1260	60,196	60,196	2646	2930	975		120,392	121,578
SHEET TOTAL			60,196	102,100		14,155	4015		120,392		5576		975	121,578	120,392	121,578

PAVEMENT DELINEATION QUANTITIES

PDQ-1

REVISED BY	DATE REVISED
AN	11-29-17

CALCULATED-DESIGNED BY: ALI NIKOO
CHECKED BY: RONNIE CHUA
FUNCTIONAL SUPERVISOR: RAMSES SARGISS

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN

LAST REVISION: 11-29-17
DATE PLOTTED => 28-MAR-2018
TIME PLOTTED => 14:02

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	85	R11.5/R17.2	9	12

Jeffy C. Kepley
REGISTERED CIVIL ENGINEER

July 21, 2017
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Jeff C. Kepley
No. 53361
Exp. 6-30-19
CIVIL
STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED 3-26-18

WATER POLLUTION CONTROL

- Temp HIGH-VISIBILITY FENCE (THVF)
- Temp SILT FENCE (TSF)
- Temp Reinf SILT FENCE (TRSF)
- Temp FIBER ROLL (TFR)
- Temp GRAVEL BAG BERM (TGBB)
- Temp STRAW BALE BARRIER (TSBB)
- Temp SLOPE DRAIN FLEX PIPE
- Temp EARTH BERM
- Temp DITCH/SWALE
- Temp CONCRETE WASHOUT (WASH)
- Temp DRAINAGE INLET PROTECTION
- Temp DRAINAGE OUTLET PROTECTION
- Temp CHECK DAM
- Temp CONSTRUCTION ENTRANCE
- Temp STOCKPILE (SP)

ENVIRONMENTALLY SENSITIVE AREA (ESA)

ESA

DRAINAGE

- DIRECTION FLOW OF WATER
- DRAINAGE SYSTEM SYMBOL
- DRAINAGE UNIT SYMBOL
- DRAINAGE INLET
- DITCH FLOW LINE

DRAFTING

- TILDE - DESIGNATES AN AREA
- NORTH ARROW
- ADDENDUM SHEET SYMBOL (#)
  (ADDENDUM NUMBER IS INCLUDED INSIDE THE SYMBOL)
- MATCH LINE
- BREAK LINE

BOUNDARY LINE

- STATE OR COUNTRY
- COUNTY OR RESERVATION BOUNDARY
- CITY OR MILITARY BOUNDARY
- FOREST
- SUBDIVISION, SECTION, GRANT
- RANCHO

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

LEGEND
LINES AND SYMBOLS
(SHEET 2 OF 5)

NO SCALE

RSP A10B DATED JULY 21, 2017 SUPERSEDES RSP A10B DATED JANUARY 20, 2017 AND STANDARD PLAN A10B DATED OCTOBER 30, 2015 - PAGE 5 OF THE STANDARD PLANS BOOK DATED 2015.

REVISED STANDARD PLAN RSP A10B

2015 REVISED STANDARD PLAN RSP A10B

6-13-17

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	85	R11.5/R17.2	10	12

Atifa Ferouz
REGISTERED CIVIL ENGINEER

July 21, 2017
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Atifa Ferouz
No. C80402
Exp. 3-31-19
CIVIL
STATE OF CALIFORNIA

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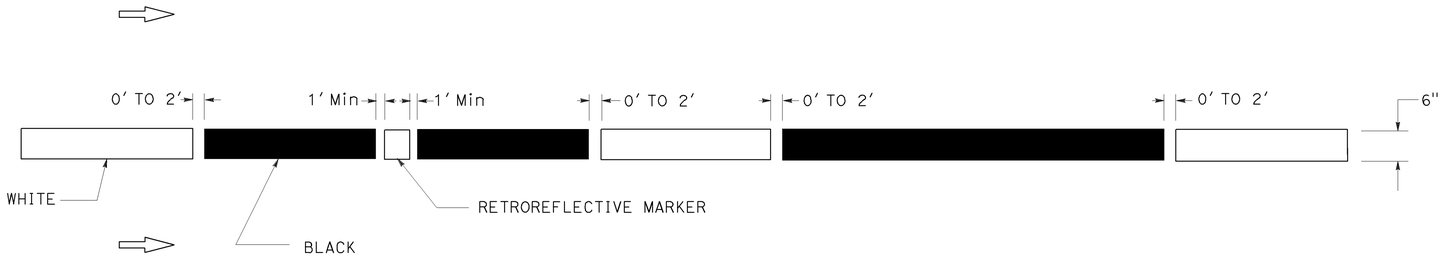
TO ACCOMPANY PLANS DATED 3-26-18

NOTES:

1. See Revised Standard Plans RSP A20A, RSP A20B, RSP A20C, and RSP A20D for pavement markers and traffic lines typical details.
2. Detail 9 traffic stripe shown, see project plans for traffic stripe details.



OPTION 2
TYPICAL LANE LINE CONTRAST DETAIL
See Note 2

OPTION 1
TYPICAL LANE LINE OR RIGHT EDGE LINE CONTRAST DETAIL

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS FOR CONTRAST STRIPING

NO SCALE

RSP A20E DATED JULY 21, 2017 SUPERSEDES RSP A20E DATED JANUARY 20, 2017 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2015.

REVISED STANDARD PLAN RSP A20E

2015 REVISED STANDARD PLAN RSP A20E

4-4-17

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	85	R11.5/R17.2	11	12

Devinder Singh
REGISTERED CIVIL ENGINEER

January 20, 2017
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Devinder Singh
No. C50470
Exp. 6-30-17
CIVIL
STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED 3-26-18

TABLE 1

TAPER LENGTH CRITERIA AND CHANNELIZING DEVICE SPACING

SPEED (S)	MINIMUM TAPER LENGTH * FOR WIDTH OF OFFSET 12 FEET (W)				MAXIMUM CHANNELIZING DEVICE SPACING		
					X	Y	Z **
	TANGENT 2L	MERGING L	SHIFTING L/2	SHOULDER L/3	TAPER	TANGENT	CONFLICT
mph	ft	ft	ft	ft	ft	ft	ft
20	160	80	40	27	20	40	10
25	250	125	63	42	25	50	12
30	360	180	90	60	30	60	15
35	490	245	123	82	35	70	17
40	640	320	160	107	40	80	20
45	1080	540	270	180	45	90	22
50	1200	600	300	200	50	100	25
55	1320	660	330	220	50	100	25
60	1440	720	360	240	50	100	25
65	1560	780	390	260	50	100	25
70	1680	840	420	280	50	100	25
75	1800	900	450	300	50	100	25

* - For other offsets, use the following merging taper length formula for L:
For speed of 40 mph or less, $L = WS^2/60$
For speed of 45 mph or more, $L = WS$

Where: L = Taper length in feet
W = Width of offset in feet
S = Posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

** - Use for taper and tangent sections where there are no pavement markings or where there is a conflict between existing pavement markings and channelizers (CA).

TABLE 2

LONGITUDINAL BUFFER SPACE AND FLAGGER STATION SPACING

SPEED *	Min D **	DOWNGRADE Min D ***		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
20	115	116	120	126
25	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785
70	730	771	825	891
75	820	866	927	1003

* - Speed is posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

** - Longitudinal buffer space or flagger station spacing

*** - Use on sustained downgrade steeper than -3 percent and longer than 1 mile.

TABLE 3

ADVANCE WARNING SIGN SPACING

ROAD TYPE	DISTANCE BETWEEN SIGNS *		
	A	B	C
	ft	ft	ft
URBAN - 25 mph OR LESS	100	100	100
URBAN - MORE THAN 25 mph TO 40 mph	250	250	250
URBAN - MORE THAN 40 mph	350	350	350
RURAL	500	500	500
EXPRESSWAY / FREEWAY	1000	1500	2640

* - The distances are approximate, are intended for guidance purposes only, and should be applied with engineering judgment. These distances should be adjusted by the Engineer for field conditions, if necessary, by increasing or decreasing the recommmended distances.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM TABLES FOR LANE AND RAMP CLOSURES

NO SCALE

RSP T9 DATED JANUARY 20, 2017 SUPERSEDES STANDARD PLAN T9
DATED OCTOBER 30, 2015 - PAGE 249 OF THE STANDARD PLANS BOOK DATED 2015.

REVISED STANDARD PLAN RSP T9

2015 REVISED STANDARD PLAN RSP T9

11-1-16

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	85	R11.5/R17.2	12	12

Devinder Singh
REGISTERED CIVIL ENGINEER

January 20, 2017
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Devinder Singh
No. C50470
Exp. 6-30-17
CIVIL
STATE OF CALIFORNIA

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NOTES:

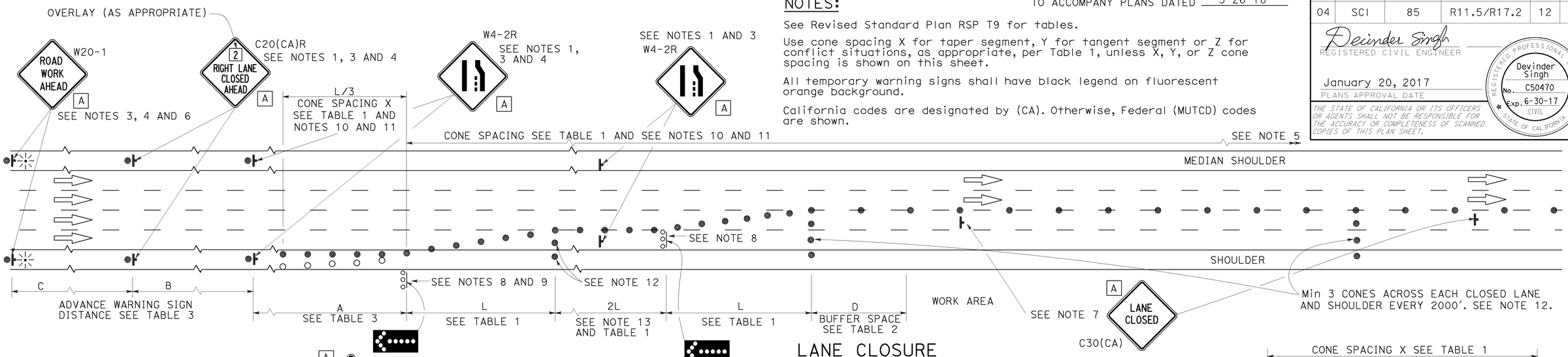
TO ACCOMPANY PLANS DATED 3-26-18

See Revised Standard Plan RSP T9 for tables.

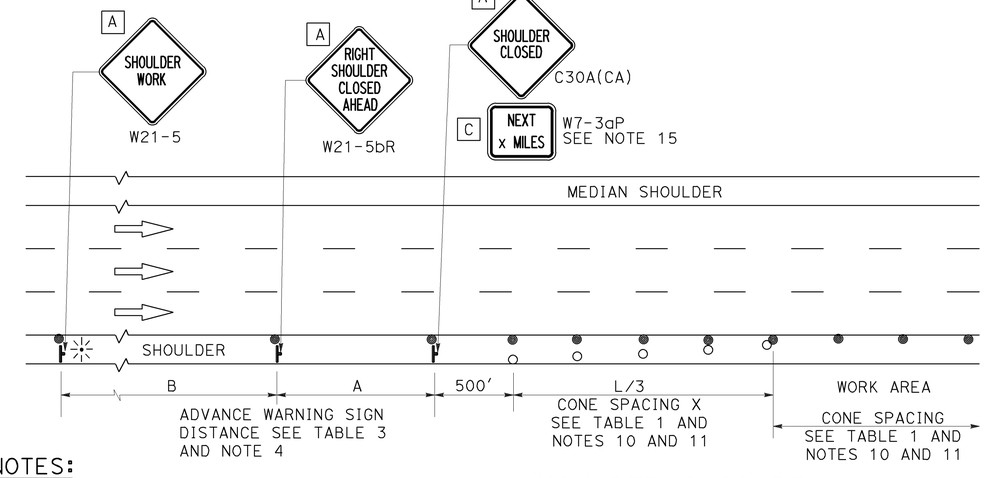
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

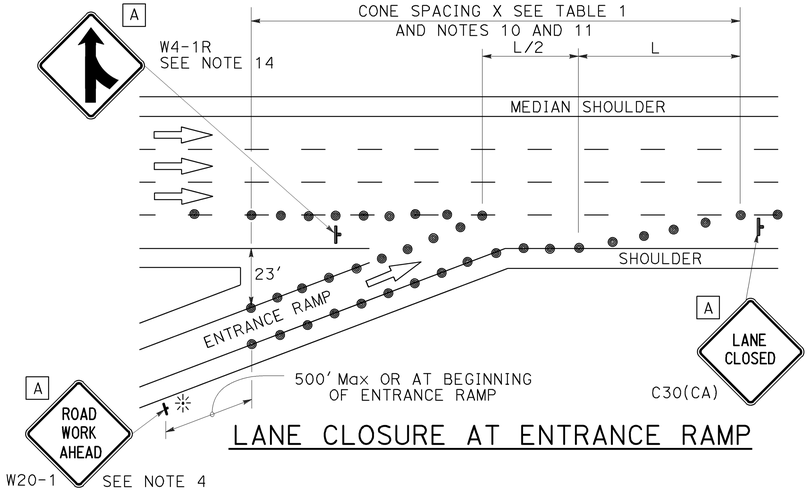
All temporary warning signs shall have black legend on fluorescent orange background.

California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

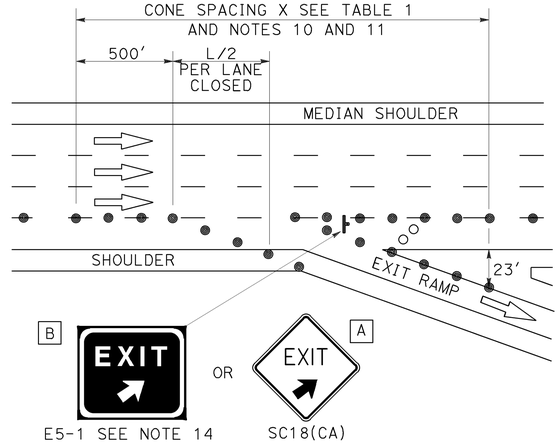


LANE CLOSURE





LANE CLOSURE AT ENTRANCE RAMP



LANE CLOSURE AT EXIT RAMP

SEE NOTE 16

NOTES:

1. Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
2. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
3. Duplicate sign installations are not required:
   a) On opposite shoulder if at least one-half of the available lanes remain open to traffic.
   b) In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
4. Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
5. A G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.

SHOULDER CLOSURE

6. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA) sign for the first advance warning sign.
7. Place a C30(CA) sign every 2000' throughout length of lane closure.
8. Use one flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
9. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
10. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves).
11. Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
12. A minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
13. The 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
14. The E5-1 or SC18(CA) and W4-1 signs shall be used as shown.
15. A W7-3aP "NEXT___MILES" plaque must be used if the shoulder closure extends beyond the distance that can be perceived by road users.
16. For the warning sign requirements at the Exit Ramp, when work is proposed on the local street, see CA MUTCD Figure 6H-22 to 6H-27.

LEGEND

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- TEMPORARY TRAFFIC CONTROL SIGN
- FLASHING ARROW SIGN (FAS)
- FAS SUPPORT OR TRAILER
- PORTABLE FLASHING BEACON

SIGN PANEL SIZE (Min)

A	48" x 48"
B	72" x 60"
C	36" x 30"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON FREEWAYS AND EXPRESSWAYS

NO SCALE

RSP T10 DATED JANUARY 20, 2017 SUPERSEDES STANDARD PLAN T10
DATED OCTOBER 30, 2015 - PAGE 250 OF THE STANDARD PLANS BOOK DATED 2015.

REVISED STANDARD PLAN RSP T10

2015 REVISED STANDARD PLAN RSP T10

11-1-16